

Assessments



According to Robert Mager, author of *Preparing Instructional Objectives*:

“An objective is a description of a performance you want the learners to be able to exhibit before you consider them competent.”

Terminal Objective

Given a performance-based objective, **develop and administer a written or performance-based assessment (exercise)** that measures the stated learning outcome and meets the minimum criteria specified in the NTC Lesson Plan Evaluation Checklist.

Route

1. Assessment vs. Evaluation
2. Types of Assessments
3. How to develop an assessment
4. How to administer an assessment

Terms

1. **Assessment** –
Method(s) used to determine the extent to which students are achieving learning objectives
2. **Evaluation** –
Procedures used to determine the quality or worth of something.

Types of Assessment

1. **Objective Assessment** –
Pen and paper (matching, multiple-choice, true-false, fill-in-the-blank, essay)
Quizzes, Case-studies, Scenario-Based Exercises
2. **Performance-Based Assessment** –
Demonstration of a specific skill or ability (counseling, driving, instructing, taking a water sample, using a computer app.)
Role-play, Discussions, Demos

Physical Skills (Psychomotor)



How to Develop An Assessment:

Step 1: Review Your Objective(s)

Given mineral material appraisal data (C), adjust the fair market value estimate of the mineral material (P) using the proper Producer Price Index and within +/- .05 cents (CR).

How to Develop An Assessment:

Step 2: Determine Method to Assess

Objective Assessment?

Performance-Based Assessment?

How to Develop An Assessment:

Step 3: Determine Assessment Needs

- Scenarios
- Pictures
- Examples
- Handouts
- People
- Checklist
- Questions
- Equipment
- Materials
- Video
- Environment

How to Develop An Assessment:

Step 4: Develop Assessment

- Write - Scenarios/Questions
- Gather - Pictures/Equipment/Materials
- Develop- Instructions

How to Administer an Assessment:

Objective Assessments:

- Give specific instructions
- Allow enough time
- Allow for sharing of findings/results

How to Administer an Assessment:

Performance-Based Assessments:

Demonstrate (you couple of times)

Practice (them couple of times)

Demonstrate (them couple times alone)

Developing An Assessment:

Something to consider:

Given mineral material appraisal data (C), adjust the fair market value estimate of the mineral material (P) using the proper Producer Price Index and within +/- .05 cents (CR).

Example Quiz Question:

A FO wishes to update their mineral material appraisal for their community pits. The last appraisal was completed 03/03/97. There is little or no activity in the pits during the winter months. The FO did an update using the PPI in March of 2001. The FO decided to again use the PPI to extend the appraisal in June of 07. The FMV for sand and gravel for 1997 was \$0.40/cubic yard. In 2001 FMV for sand and gravel was adjusted (using the PPI) to \$0.45/CY. What would be your recommendation for the FMV of the sand and gravel for 2007?

- A. \$0.62/CY
- B. \$0.45/CY
- C. \$0.55/CY
- D. \$0.70/CY

Example Quiz Question:

- Establish the commodity to be appraised
- Determine the current appraised value
 - Access the BLS website
 - Select the proper PPI
 - Select the correct data
- Complete PPI computations
- Adjust the contract price

Example Quiz Question:

Producer Price Indices (PPI) are found on the:

- A. Bureau of Labor Statistics (BLS) Website
- B. Bureau of Land Management Statistics (BLMS) Website
- C. Mining, Minerals and Statistics (MMS) Website
- D. Vital Land Statistics (VLS) Website

Measures Just Knowledge!

We will evaluate...

- Accuracy (Reach Objective)
- Quantity (Diff. Delivery Strategies)
- Quality (Physical-Interactivity)

Your assessment in your 30-minute presentation will help you meet these requirements!

Conclusion



Summary

1. Assessment vs. Evaluation
2. Types of Assessments
3. How to develop an assessment
4. How to administer an assessment

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